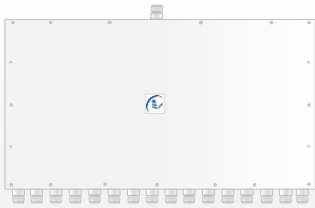


16-way Passive IF-band Splitter/Combiner



COM16F4P-2636 is a 16-way passive equi-phase and equi-amplitude IF (50 to 1000MHz) splitter/combiner with DC block on all ports.

This component is available with the following RF connector options: 50 Ω SMA, N-type, BNC and 75 Ω BNC or F-type.

Summary table for RF performance over IF-band operation, 50 MHz to 1000 MHz

Model Numbers	Conn.	Insertion Loss* (dB)		Isolation (dB)		Return Loss (dB)		Phase & Amplitude Misalignment*		
		Typ.	Max	Typ.	Min	Typ.	Min	Φ	Amp(dB) Typ	Amp(dB) Max
COM16F4P-2636-S5S5	50Ω SMA	2.5	3.5	22	17	18	13	±7	±0.5	±1.0
COM16F4P-2636-N5N5	50Ω N-type	3.0	4	22	17	18	13	±7	±0.5	±1.0
COM16F4P-2636-B5B5	50Ω BNC	3.0	4	22	17	15	12	±7	±0.5	±1.0
COM16F4P-2636-B7B7	75Ω BNC	3.2	4.2	22	17	14	10	±7	±0.5	±1.0
COM16F4P-2636-F7F7	75Ω F-type	3.5	4.5	22	17	10	8	±7	±0.5	±1.0

* The quoted insertion loss is loss above theoretical due to power split. For 16-way splitters theoretical value is 12dB. Typical values may vary between different production batches.

** Phase and amplitude misalignment is at any spot frequency within 50 to 1000 MHz between any two ports.

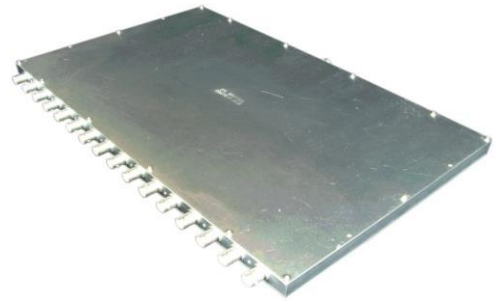
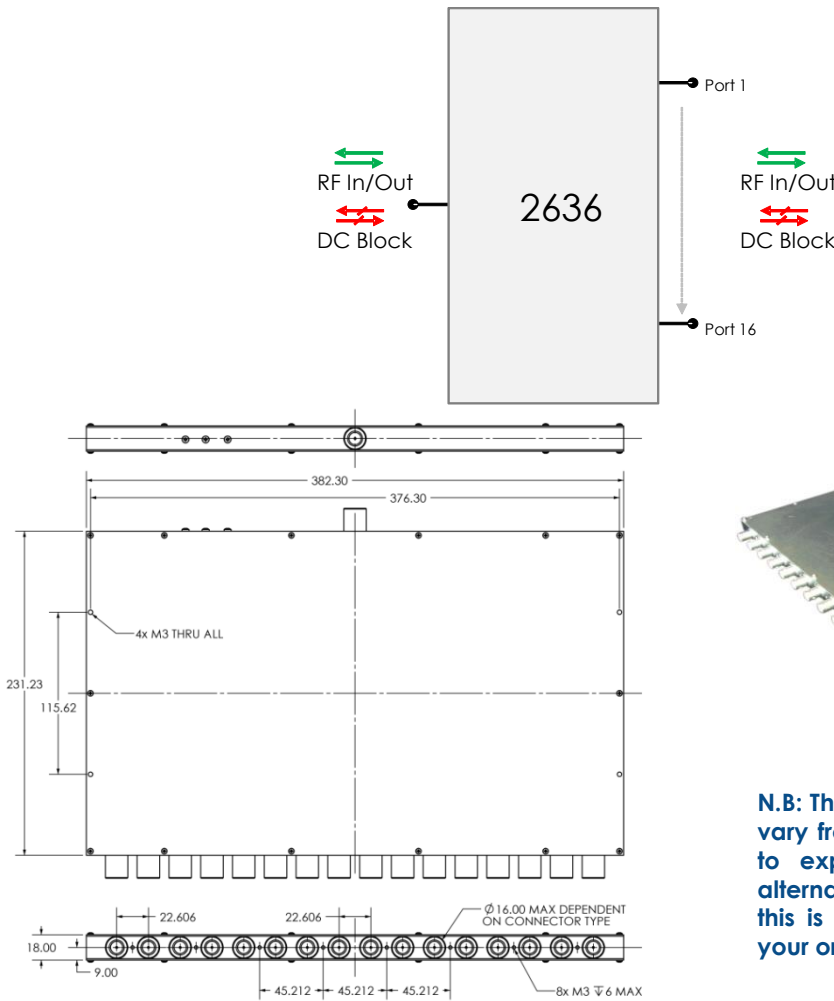
Maximum acceptable operating parameters for reliable and safe operation

Parameter	Value	Comment
Input RF power	+27 dBm (0.5W)	160-250 MHz 1W Max Power 200 μs (max 10% duty cycle)
DC Voltage	40V	Any RF port
Operating temperature	0 to 45°C	Indoor use only
Storage Temperature	-20°C to +75°C	
Humidity	95%	Non-condensing

! Operation beyond these limits may cause instantaneous and permanent damage.



Vector diagram & physical dimensions



N.B: The housing and fixing holes may vary from time to time. This would be to expedite delivery by using an alternative suitable, similar housing. If this is a concern please advise with your order.

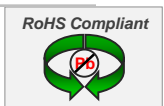
Feature set for some alternative 16-way Passive splitters/combiners

Model Number	Frequency (MHz)	DC Pass/Block	10 MHz Pass/Block
COM16F2P-2559	50 – 200	DC block on ALL ports	
COM16L1P-2526	850 – 2150	DC pass on ALL ports	10MHz pass on ALL ports
COM16L1P-2531	850 – 2150	DC block on ALL ports	
COM16L1P-2546	850 – 2150	DC block on ALL ports	
COM16L1P-2614	850 – 2150	DC pass on ONE port only, DC block on all other ports	10MHz pass on ONE port only, 10MHz block on all other ports
COM16L1P-2558	850 – 2150	DC block on ALL ports	10MHz block on ALL ports
COM16L1P-2592	850 – 2150	DC block on ALL ports	10MHz block on ALL ports
COM16F4P-2631	50-1000	DC block on ALL ports	equi-amplitude only
COM16F4P-2636	50-1000	DC block on ALL ports	equi-amplitude and equi-phase



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ETL Systems design, develop and manufacture specialist equipment for satellite ground stations. For a full description of the ETL product range, please see our website at www.etlsystems.com. This product range provides the basis for meeting your specific demands.



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